

ACEC/NC/DOT BRIDGE SUBCOMMITTEE

Minutes of February 4, 2008 Meeting
Structure Design Conference Room C
February 4, 2008, 10:30 am

Attendees

Greg Perfetti – NCDOT Structure Design Unit
Allen Raynor – NCDOT Structure Design Unit
Lonnie Brooks – NCDOT Structure Design Unit
John Yannaccone – NCDOT Bridge Maintenance Unit
Jerry Carter – Vaughn & Melton
David Peterson – RK&K
David Simpson – Simpson Engineers
Peter Graf – LPA
Domenic Coletti – HDR
Rodney E. Money – T.Y. Lin International

Bridge Design Workshop Series

Domenic Coletti indicated that the results of the LRFR Load Rating workshop were positive. The next workshop on LRFD Foundation Design is scheduled for Monday, April 7. The workshop will be held at the Wake Commons Building.

- LRFD Foundation Workshop – Monday, April 7, 2008
PEF Speaker: Brian Keaney – S&ME
NCDOT Speaker: Njoroge Wainaina – Geotechnical Engineering Unit

LRFD Joint Training

A one day NHI LRFD course is no longer available. A one day LRFD substructure seminar is available through FHWA. Reggie Holt, with FHWA, has a presentation that includes design examples of a hammerhead pier and a multi-column pier. Allen Raynor will make a request for this training through Thoma Drda, with the North Carolina Division of FHWA.

Structure Design Manual

Allen Raynor indicated that Sub-Regional Tier Criteria will be incorporated into the Structure Design Manual this Spring. Discussions regarding the new Structure Design Manual included the following:

- For seismic zones, use Seismic Zones A and B as defined in previous manuals.
- Railing loads have been used in the development of the deck slab thickness and reinforcing tables.
- The empirical design method may be allowed in the Sub-Regional Tier criteria.

Structure Policy Memos

Allen Raynor stated a new policy memo regarding TVA Submittal Guidelines has been issued. TVA submittals shall be made directly to the appropriate Watershed Team Manager.

Anticipated Advertisements/Workload

Lonnie Brooks identified the following projects as potential advertisements for PEFs.

- R-4047 (NC 209 at Lake Junaluska)
 - Public hearing to be held in the Spring to determine the need of the project
 - Railroad underpass advertisement unknown
- R-2633B (Wilmington Bypass)
 - 20 Bridge Sites
 - January 2009 Advertisement
 - July 2011 Letting
- U-2579B (Winston-Salem NE Beltway)
 - Railroad Overpass, 9 Grade Separations
 - 2011 Advertisement
 - September 2013 Letting
- I-3819 (I-40/I-77 Interchange)
 - 18 Initial Bridge Sites
 - Project may be scaled down and constructed in phases
 - Initial phase may contain only necessary movements and include the I-40 West to I-77 South flyover
 - October 2008 Advertisement

Transportation Management Team Workstream

Greg Perfetti provided an update from the Transformation Management Team. The TMT has identified the bridge program as a priority and is looking to streamline the delivery of “B” projects. Sub-Regional Tier design guidelines and standards have been developed and are currently being reviewed by NCDOT and FHWA. Approval of these standards is expected within a few weeks.

Meeting Schedule

The next meeting is scheduled for Monday, May 5, 2008 at 10:30am in the Structure Design Conference Room B.